

LENOCH, Fr.; BARDFELD, R.

Indications, advantages and disadvantages of cortisone injection into the synovial cavity. Cas. lek. cesk. 101 no.20:609-614 18 My '62.

1. Vyzkumny ustav chorob revmaticckych, Praha, prednosta prof. dr. Fr. Lench.

(CORTISONE therapy) (KNEE pharmacol)
(SPONDYLITIS ANKYLOSING therapy)

CZECHOSLOVAKIA

MECIR, J.; DRABKOVA, H.; BARDFELD, R.; Psychiatric Clinic of the Faculty of General Medicine at the Charles University [Psychiatricka Klinika Fakulty Vseobecneho Lekarstvi KU], Prague; Research Institute for Rheumatic Diseases [Vyzkumny Ustav Chorob Revmatickych], Prague.

"Psychology of Patients Suffering from Juvenile Progressive Polyarthrititis."

Prague, Ceskoslovenska Psychiatrie, Vol 59, No 5, 1963, pp 311-318

Abstract: The authors examined 25 children and 3 adults who, however, developed the disease as children. No specific psychological deviations due to juvenile arthritis were found. The intellect is not impaired; there is a high interest in schoolwork. Health is considered the most important factor, and there is a sense of being separated from the community of children. The patients are not more content and are not indifferent. Their limitation of interests should receive rheumatological and psychological care. 9 Western, 10 Czech, 1 Russian reference.

1/1

MECIR, J.; DRABKOVA, H.; BARDFELD, R.

Psychology of patients with juvenile progressive polyarth-
ritis. *Cesk. Psychiat.* 59 no.5:311-318 0'63.

1. Psychiatricka klinika fakulty vseobecneho lekarstvi KU,
Praha, a Vyzkumny ustav chorob revmatickych, Praha.

BARDFELD, R.; STRELA, A.

Juvenile progressive polyarthritis with onychoarthroosteodystrophy.
Fysiat. vestn. 43 no.6:332-334 D ' 65

1. Vyzkumny ustav chorob revmatickych z Praze (reditel: prof. dr.
F. Lenoch, DrSc).

BARDHOSHI, G.

Fighting wolves and jackals.

p. 32 (Per Bujqesine Socialiste) Vol. 11, No. 9, Sept. 1957. Tirane, Albania

SO: Monthly Index of East European Accessions (EEAI) LC, - Vol. 7, No. 1, Jan. 1958

BARDHOSHI, G.

"We should hunt more fur-bearing animals."

p. 29 (Per Bujqesinë Socialiste) Vol. 12, no. 1, Jan. 1958.
Tirane, Albania

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958.

Distr: 4E2c

Reduction of chromium(VI) by different reducing agents.
M. T. Beck and I. Bárdi (Univ. Szeged, Hung.). *Acta
Univ. Szegediensis. Acta Phys. et Chem. (N.S.)* 4, 54-8
(1958) (in English).—Twenty ml. of approx. 0.05M Na-
Cr₂O₇ soln. was acidified with perchloric acid and the calcd.
quantity of the reducing agent added. The soln. was dild.
to 50 ml., and the visible and near ultraviolet spectra were
recorded. With the reducing agents H₂O₂, hydrazine per-
chlorate, and hydroxylamine the spectra of the solns. were
identical with that of the aquo complex of Cr(III) in a
soln. of Cr(ClO₄)₃. Changes in the absorption spectra indi-
cate considerable interaction between Cr(III) and the
oxidized forms of the reducing agents As(III) perchlorate,
Sn(II) chloride, Sn(II) perchlorate, and Ti(III) chloride.

R. M. Varga

BARDI, I.

SCIENCE

PERIODICALS: ~~ACTA ZOOLOGICA~~. Vol. 64, No. 7/8 July/Aug. 1958

MAGYAR KEMTAL FOLYOIRAT

Bardi, I. Formation of complex compounds in redox processes. p. 272

Monthly list of East European Accessions (EEAI) LC, Vol. 3, No. 2,
February 1959, Unclass.

BARDI, Istvan

An account of my study trip to Great Britain. Kem tud kozl MTA
22 no.2:279-281 '64.

1. Research Group of Reaction Kinetics, Hungarian Academy of
Sciences, Szeged.

L 63748-65 EWP(j)/T RM

ACCESSION NR: AT5021760

HU/2502/64/041/01-/0231/0238

AUTHOR: Beck, Mihaly (Bek, M.T.)(Doctor)(Szeged); Seres, Istvan (Sherech, I.)
(Szeged); Bardi, Istvan (Doctor)(Szeged)

TITLE: Reduction of chromium (VI) in the presence of complex-forming agents.
Part 2: Mechanism of oxidation of cobalt (II) - aminopolycarboxylic acid
complexes by chromium (VI)

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 41, no. 1-2, 1964,
231-238

TOPIC TAGS: chromium, cobalt, carboxylic acid, oxidation reduction reaction

ABSTRACT: [English article; authors' English summary, modified] Chromium(VI)
is reduced in acidic solutions by the cobalt(II) complexes of various
aminopolycarboxylic acids. The prerequisite of the electron transfer
is the protonation of the aminopolycarboxylic acids. On applying ethylenedi-
amine tetraacetate, the intermediate of the complicated oxidation-
reduction process, which is a heteropolynuclear complex containing

Card 1/2

L 63748-65

ACCESSION NR: AT5021760

trivalent cobalt and hexavalent chromium, has a relatively long lifetime.
Orig. art. has: 2 figures, 6 graphs.

ASSOCIATION: Institute of Inorganic and Analytical Chemistry, A. Jozsef
University, Szeged; Reaction Kinetical Research Group of the Hungarian Academy
of Sciences, Szeged

SUBMITTED: 14Feb64

ENCL: 00

SUB CODE: IC, CC

NR REF SOV: 000

OTHER: 006

JPRS

mlb
Card 2/2

BECK, Mihaly T., dr. (Szeged, Beloiannisz ter 7); BARDI, Istvan (Szeged, Beloiannisz ter 7)

Reduction of chromium (VI) in the presence of complex forming agents.
I. Reduction in the presence of ethylenediamine-tetra-acetic acid.
Acta chimica Hung 29 no.3:283-289 '61.

1. Institute of Inorganic and Analytical Chemistry, University of Szeged, Hungary.

(Chromium) (Complex compounds)

BECK, Mihaly; BARDI, Istvan

Reduction of Cr(VI) in the presence of complex-forming substances. I.
Magy kem folyoir 69 no.2:60-63 F '63.

1. Szegedi Tudományegyetem Szervetlen és Analitikai Kémiai Tanszéke,
és Reakciókinetikai Akadémiai Kutató Csoport.

BECK, Mihaly; SERES, Istvan; BARDI, Istvan

Mechanism of the oxidation of cobalt(II)-amino-polycarboxylic acid-complexes by Cr(VI); a preliminary communication. Magyar kem folyoir 69 no.1:46-48 Ja '63.

1. Szegedi Tudományegyetem Szervetlen-Kémiai Intézeté; Magyar Tudományos Akadémia Reakciókinetikai Kutató Csoportja.

BECK, Mihaly; SERES, Istvan; BARDI, Istvan

Reduction of Cr(VI) in presence of complex-forming substances.Pt.2.
Magy kem folyoir 70 no.5:220-223 My '64.

1. Chair of Inorganic and Analytic Chemistry, Attila Jozsef
University, Szeged and Reaction Kinetics Research Group,
Hungarian Academy of Sciences, Szeged.

TUBAI, Artur; (Budapest); HIMFER, Frigyes; (Budapest); BARDI, Kornel
(Budapest); FERTSE, Istvan (Budapest)

Forum of innovators. Ujit lap 16 no.18:30 25 S '64

FURMAN, M.S.; BARDIAN, A.S.; GOL'TYAYEVA, N.A.; SAVCHUK, S.N.

Oxidation of n-butane in the gaseous phase under pressure. Gaz. prom.
no.10:36-43 0 '58. (MIRA 11:11)
(Butane) (Oxidation)

BARDIK, G. F. and BEYLIKNES, Ya. M.

"Introduction of Engineer Kovalev's Method in a Boiler Room," Elek. sta.,
23, No.4, 1952

1. BARDIK, G. F.; BEILIKHES, Ya. M., Eng.
2. USSR (600)
4. Water-Supply Engineering
7. Socialist competition of workers of chemical water purification installations.
Rab. energ. 3, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953. Unclassified.

SIMULIN, Yu.N.; LACHINOV, S.S.; TOROCHESHNIKOV, N.S.; BARDIK, Z.N.;
KLYACHKO-GURVICH, A.L.

Change in the specific activity of an iron catalyst for
ammonia synthesis as dependent on the degree of reduction.
Kin. i kat. 4 no.6:933 N-D '63. (MIRA 17:1)

1. Gosudarstvennyy institut azotnoy promyshlennosti.

BR

ACCESSION NR: AP4041342

S/0115/64/000/005/0019/0021

AUTHOR: Bardila, P. I.; Kits, A. I.; Lakh, V. I.; Pinchevskiy, A. D.; Shparov, P. I.

TITLE: New platinum resistance thermometers

SOURCE: Izmeritel'naya tekhnika, no. 5, 1964, 19-21

TOPIC TAGS: thermometer, resistance thermometer, platinum resistance thermometer

ABSTRACT: Soviet-make resistance thermometers for a $-200+500^{\circ}\text{C}$ range with platinum wire wound on a mica form have shown these shortcomings: (a) poor seal, (b) mechanical weakness, (c) unwieldy design, and (d) high thermal inertia. A new design, free from the above drawbacks, consists of four helices, made from $0.05-0.07\text{-mm}$ Pt wire, placed in channels in a ceramic cartridge; the channels are subsequently filled with alumina powder. Temperature measurements up to 700°C are possible. These types are developed and offered for production:

Card 1/2

ACCESSION NR: AP4041342

Type:	Resistance at 0C, ohms	Sensitive elem. dia., mm	Length, mm	Channel dia., mm
Single	10	2.8	20	0.6
	46	4.8	25	1.3
	46	4.2	35	1.2
Double	100	4.8	50	1.3
	46	4.8	50	1.3

Orig. art. has: 2 figures and 1 table.

ASSOCIATION: none

SUBMITTED: 00

SUB CODE: TD, IE

NO REF SOV: 004

ENCL: 00

OTHER: 000

Card 2/2

BARDILA, P.I.; KITS, A.I.; LAKH, V.I.; PINCHEVSKIY, A.D.; SHPAROV, P.I.

New platinum resistance thermometers. Izv. tekhn. nauch. i issled. inst. 5:19-21
My'64 (MIRA 17:7)

BARDILA, T.I.

Graphical design of oscillators and frequency multipliers. Izv. vys.
ucheb. zav.; radiotekh. no.3:301-308 My-Je '58. (MIRA 11:8)

1.Rekomendovana kafedroy radiopriyemnykh i peredayushchikh
ustroystv L'vovskogo politekhnicheskogo instituta.
(Oscillators, Electron-tube--Graphic methods)
(Frequency multipliers--Graphic methods)

ACC NR: AR6000663

SOURCE CODE: UR/0372/65/000/008/G008/G008

AUTHOR: Bardila, T. I.

TITLE: Structural analysis of nonlinear phenomena

SOURCE: Ref. zh. Kibernetika, Abs. 8G60

REF SOURCE: Sb. dokl. Tashkentsk. politekhn. in-t, no. 6, 1964, 127-131

TOPIC TAGS: nonlinear effect, frequency conversion, frequency converter, nonlinear theory, harmonic analysis

ABSTRACT: The nonlinearity of a system engenders harmonic components in periodic processes. Subharmonic and harmonic-fraction components also arise in nonlinear systems, but the literature does not clearly define the structural differences between nonlinear systems with the former and latter types of components. There arises the question of what criterions determine a given nonlinear frequency conversion and what should be the structure of the converter for accomplishing this nonlinear process. These comments necessitate the isolation of the elementary components of nonlinear frequency conversions and of the corresponding elementary nonlinear converters. With the aid of a number of examples it is shown that the

Card 1/2

UDC: 62-509

ACC NR: AR6000663

steepness of the conversion curve may be a convenient criterion for the analysis of nonlinear systems. It makes possible the determination of the internal structure of nonlinear frequency conversions. 10 illustrations. V.M. [Translation of abstract]

SUB CODE: 09, 12, 20

Card 2/2

BARDIN, A.F., inzh. (Ufa)

Steam ejector used for removing remnants of petroleum from tanks.
Zhel. dor. transp. 40 no.8:73 Ag '58. (MIRA 11:9)
(Tanks--Cleaning) (Steam jets)

BARDIN, A. N.

Category : USSR/Optics - Optical technique

K-4

Abs Jour : Ref Zhur - Fizika, No 1, 1957, No 2230

Author : Bardin, A.N.

Title : Brief Survey of the Development of Russian Optical Manufacture

Orig Pub : Tr. Mosk. in-ta inzh. geol. aerofotos'nyemki i kartogr., 1954, 18, 83-94

Abstract : No abstract

Card : 1/1

BARDIN, Anatoliy Nikolayevich; GLEZAROVA, I.L., redaktor; SARKIN, I.G.,
zasluzhennyy deyatel' nauki, professor, redaktor; MEDVEDEV, N.M.,
kandidat khimicheskikh nauk, redaktor; IVANOV, L.V., inzhener,
redaktor; CHURILOVSKIY, V.N., doktor tekhnicheskikh nauk, pro-
fessor; KAPUSTINA, T.P., kandidat tekhnicheskikh nauk, dotsent;
ROMANOVA, L.V., kandidat tekhnicheskikh nauk, dotsent; BOKIN, P.Ya.,
inzhener; POLLYAK, V.V., kandidat tekhnicheskikh nauk, redaktor;
PANOVA, L.Ya., tekhnicheskiiy redaktor.

[Technology of optical glass] Tekhnologiya opticheskogo stekla.
Moskva, Gos. izd-vo lit-ry po stroitel'nym materialam, 1955. 494 p.
(Glass, Optical) (MLRA 9:1)

BARDIN, A.N., dotsent.

Plotting diagrams of paths for estimating the kinematic abrasion of surfaces in grinding optical parts. Trudy MIIGAIK no.20:45-57 '55.
(MLRA 10:1)

1. Moskovskiy institut inzhenerov geodezii, aerofotos"yenki i kartografii, Kafedra prikladnoy optiki.
(Grinding and polishing)
(Optical instruments)

BARDIN, Anatoliy Nikolayevich; MOZES, Ye.N., retsenzent; BEGUNOV,
B.N., retsenzent; KHRUSTALEVA, N.I., red.; GRIGORCHUK,
L.A., tekhn. red.

[Technology of optical glass manufacture] Tekhnologiya opti-
cheskogo stekla. Izd.3., perer. i dop. Moskva, Vysshaya
shkola, 1963. 518 p. (MIRA 16:12)
(Glass, Optical)

BARDIN, D.

Studying the problems of labor productivity of aggregate labor.
Vop.ekon. no.9:81-85 S '61. (MIRA 14:8)
(Labor productivity)

BARDIN, D.; BLYAKHMAN, L.

"Correlation between the increase of labor productivity and wages in U.S.S.R. industry" by I.A. Orlovskii, G.P. Sergeeva.
Reviewed by D. Bardin, L. Bliakhman. Sots. trud.7 no.5:153,156
My '62. (MIRA 15:5)

(Wages and labor productivity)
(Orlovskii, I.A.) (Sergeeva, G.P.)

BABARYKIN, V.K.; BARANOV, G.I., mladshiy nauchnyy sotrudnik; BARDIN, G.I.,
mladshiy nauchnyy sotrudnik; SAKUNOV, G.G., mladshiy nauchnyy sotrudnik

Albedo of the Antarctic ice surface. Inform.biul.Sov.antark.eksp.
no.48:22-24 '64. (MIRA 18:2)

1. Tsentral'naya aerologicheskaya observatoriya, Arkticheskiy i
antarkticheskiy nauchno-issledovatel'skiy institut i Glavnaya
geofizicheskaya observatoriya.

OGARKOV, Ye.F., dotsent; BARDIN, I.G., inzh.; SHAPOVAL, G.T., inzh.

New type of pressure hydraulic transportation. Izv. vys. ucheb.
zav.; gor. zhur. no. 12:73-77 '59. (MIRA 14:5)

1. Dnepropetrovskiy ordena Trudovogo Krasnogo Znameni gornyy
institut imeni Artema. Rekomendovana kafedroy rudnichnogo transporta.
(Hydraulic conveying)

BARDIN, I.P., akademik

Organize standardization proceedings. Standartizatsia
29 no.9:21-23 S '65. (MIRA 18:12)

BARDIN, K.V.

Investigation of the sensory recollection of distinctive
sensitivity to color in school children. Vop.psikhol. 6
no.2:107-117 '60. (MIRA 13:7)

1. Institut psikhologii APN RSFSR, Moskva.
(Color sense)

KOSSOV, B.B.; KOZINA, T.M.; BARDIN, K.V.; STRAKHOV, I.V.

Reviews and bibliography. Vop. psikhol. 11 no.3:165-182 My-Je '65.
(MIRA 18:7)

1. Institut psikhologii Akademii pedagogicheskikh nauk RSFSR, Moskva
for Kossov, Bardin). 2. Kafedra psikhologii Odesskogo universiteta
(for Kozina). 3. Pedagogicheskiy institut, Saratov (for Strakhov).

BARDIN, K.V.

Subjects' selection of their own criteria for working within
the limits of doubt during threshold measurements. Vop. psikhol.
11 no.6:90-99 N-D '65. (MIRA 19:1)

1. Institut psikhologii Akademii pedagogicheskikh nauk RSFSR,
Moskva.

BARDIN, M. B.

Syntheses of complex heterocyclic acids. A. I. KAY, M. B. Bardin, and N. A. P...
Address: ...

Address: ...

Barton, M.B.

Diary: 4E41/4E2c

Gravimetric determination of cadmium with α -nitro- β -naphthol
M. B. Barton and V. J. Shapovalov *Ukrainian Journal of Analytical Chemistry*

[Faded text from the article, including abstract and introduction]

precipitated with α -nitro- β -naphthol (0.1% solution) when
105-110°, and weigh. To det. Cd from a 0.01M CaSO_4
soln., add 0.5ml (by vol.) amt. of the reagent and let ppt.
 Zn^{2+} , Cu^{2+} , Pb^{2+} , Fe^{3+} , Ce^{4+} , Cl^- , VO_3^- , MnO_4^- , and
 $\text{Cr}_2\text{O}_7^{2-}$ interfere. NO_3^- (in the presence of SO_4^{2-}) and
 Mg^{2+} do not interfere.

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J.M. Jhr

BARDIN-SHTEYN, M. B.,

"Polarographic Determination of Platinum and Palladium on Solid Electrodes."
(Dissertation for Degree of Candidate of Chemical Science) Min Higher Education,
Kishinev State U, Kishinev, 1955

SO: M-1036, 28 Mar 56

BARDIN

M. B.

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AV Polarographic determination of platinum on solid elec-
trodes. I. M. Bardin and Yu. S. Izrael (Soviet Union)
AV ~~Journal of Electroanalytical Chemistry, 1964, 10, 333-338; Pt 10~~
determined gravimetrically in a PtCl₄ soln. with NaNO₃ as
supporting electrolyte and Pt electrodes. The cathodic
reduction of PtCl₄ on Pt electrodes in a 0.1M NaNO₃ soln.
containing 0.01M PtCl₄ was studied. The reduction of PtCl₄
on Pt electrodes in a 0.1M NaNO₃ soln. containing 0.01M
PtCl₄ was studied. The reduction of PtCl₄ on Pt electrodes
in a 0.1M NaNO₃ soln. containing 0.01M PtCl₄ was studied.
The height of peak curves was proportional to the amount of Pt
on the electrode. Polarization curves and cyclic voltammograms
are described.

M. Bardin

① *[Handwritten signature]*

BARDIN; M. B.

3371. Polarographic determination of platinum on solid electrodes. II. M. B. Bardin and Yu. S. Lyubkov (Khimicheskaya ~~Prilozheniya~~ ~~Zhur.~~ ~~Anal. Khim.~~, 1956, 31 (1), 67-70.—The electrode process on a platinum micro-cathode during polarography of aq. soln. of H_2PtCl_6 is studied by means of the apparatus previously described (*Anal. Khim.*, 1955, 3, 1376). The first wave is attributed to the sum of the reduction processes $[PtCl_6]^{2-} \rightarrow [PtCl_4]^{2-} \rightarrow Pt^0$, and the second wave to the reduction of $H_2[PtCl_6] + 2e \rightarrow H_2 + 2H_2O$. Since the second wave is a function of the concn. of hydrogen ion, the first wave, the height of which is proportional to the concn. of Pt, must be used for analytical purposes.

G. S. SMITH

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BARDIN, M.B.

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✓ Polarographic determination of palladium on solid electrodes. M. B. Bardin and Ya. S. Lyalikov (State Univ. Kishinev). *Zh. Anal. Khim.* 11, 704-704 (1956), 41, 50, 3350s. — Pb (0.005 g./ml.) was detd. polarographically by using solid Pt electrodes with an accuracy of $\pm 2\%$. The reduction potential was 0.6-0.7 v. Raising the e.m.f. to 1.5-1.7 v. caused H absorption by the Pd deposit. This could be prevented by not exceeding 1.2-1.3 v., i.e., before evolution of H. The use of a rotating electrode of the type suggested by Kolthoff (K. and Lingane, *Polarography*, 1951, Ch. 35, 451-4) increased the sensitivity and shortened the time for a detn. M. B. Bardin

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Bardin, M.B.

2)
Amperometric titration of palladium with some organic reagents by using a rotating electrode. M. B. Bardin and Yu. S. Lyalkov (State Univ., Kishinev), Zhur. Anal. Khim. 12, 310-4 (1957). Pd was titrated with a fresh solution by using a rotating Pt electrode. At Pd concns. of 10^{-4} - $10^{-3}M$, the accuracy of the titration was 2-3%. Other suitable titrants were alc. soln. of dimethylglyoxime, aq. solns. of Na dimethylglyoxime, dimethylglyoxime, and 2-furalaloxime; and AcOH soln. of 8-quinolineol. 1-Nitroso-2-naphthol used with dropping electrode was unsuitable for use with a rotating electrode. M. Hoch

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BARDIN, M. B.

USSR/Physical Chemistry - Electrochemistry.

B-12

Abs Jour: Referat. Zhurnal Khimiya, No 3, 1958, 7321.

Author : M.B. Bardin, V.A. Zariuskiy, L.A. Saley.

Inst : Kishinev University.

Title : Polarographic Determination of Hydrogen Ions on Solid Platinum Electrode.

Orig Pub: Uch. zap. Kishinevsk. un-ta, 1957, 27, 93-100.

Abstract: The polarographic behavior of smooth Pt in HCl solutions saturated preliminarily with N_2 was studied on the background of 0.1 n. KCl and 0.1 n. $NaNO_3$ at pH = 3 to 4 without stirring. In accordance with literature data, 2 potentials of hydrogen liberation were observed: -0.56 and -1.03 v (satur. c. e.) in $1.5 \cdot 10^{-3}$ n. HCl. It is noted that clear waves are received also with platinized and palladinized Pt electrodes, but they are shifted to the positive side. It is shown that the polaro-

Card : 1/2

-18-

5(2,4)

SOV/153-2-4-7/32

AUTHORS:

Temyanko, V. S., Bardin, M. B., Lyalikov, Yu. S.

TITLE:

Polarographic Determination of Platinum on a Rotating Platinum Microdisk Electrode

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1959, Vol 2, Nr 4, pp 503 - 508 (USSR)

ABSTRACT:

The authors criticize the use of the dropping electrode for the investigation of the polarographic behavior of platinum (Refs 1-14). The use of a solid electrode instead of the dropping electrode is more favorable for overcoming the difficulties occurring (Ref 15). There are, however, also some shortcomings. They can be eliminated if a rotating electrode is used. The composition of the paper under discussion was caused by these facts. Figure 1 shows the hermetic cell with a shutter and a rotating electrode. Figure 2 shows the volt-ampere curves of platinum. Figure 3 shows the examination of the reversibility of the reduction of the ion

$[PtCl_6]^{2-}$. Table 1 shows the reduction potentials of platinum.

Card 1/3

Table 2 shows the computation of the number of electrons parti-

Polarographic Determination of Platinum on a Rotating
Platinum Microdisk Electrode

SOV/153-2-4-7/32

icipating in the reduction reaction of the ion mentioned. Figure 4 shows the dependence of the diffusion current of platinum on the rotation rate of the microdisk electrode. As can be seen, the dependence found here agrees with the theoretical one found by means of the equation of V. Levich (Ref 22). The authors investigated the possibility of polarographing platinum on the background of various electrolytes. They investigated the effect of the nature and concentration of the salts: NaNO_3 , NaCl , NaBr , NaJ , NaClO_4 , etc, further of the buffer solutions: of the acetate- and phosphate-citrate buffer, of HNO_3 , H_2SO_4 , HCl , of ammonia, and other substances. The platinum wave increases to a certain extent (Ref 16) with the increase in the NaNO_3 or HNO_3 concentration. The acidity increase of 10^{-5} to 2 n by a concentration increase of HNO_3 did not influence this wave but, naturally, increased the second wave. The use of NaCl or HCl , instead of nitrate, changes the character of the platinum polarogram. NaBr and NaJ (Fig 5) are still more effective. This indicates the formation of sufficiently solid complexes which practically cannot be reduced on a platinum electrode. The second

Card 2/3

Polarographic Determination of Platinum on a Rotating Platinum Microdisk Electrode SOV/153-2-4-7/32

wave corresponding to the hydrogen reduction is preserved in this case. The reduction potential, however, is somewhat shifted towards the more positive range. The authors try to explain this phenomenon. The determination of platinum may be disturbed by oxygen since the reduction potentials of these two elements lie close to each other. Therefore, oxygen has previously to be removed. This is achieved by letting through nitrogen for 30-40 minutes. Further disturbances are caused by the surface condition of the electrode: formation of an oxide film. Various methods for their elimination are suggested in references 24-26. Figure 6 and table 3 show the dependence of the diffusion current on the platinum concentration in the solution. Hence it appears that the average determination accuracy is $\pm 5\%$ in the case of large platinum amounts, and about 10% in the case of small amounts. There are 6 figures, 3 tables, and 26 references, 11 of which are Soviet.

ASSOCIATION: Kishinevskiy gosudarstvennyy universitet, Kafedra analiticheskoy khimii (Kishinev State University, Chair of Analytical Chemistry)

SUBMITTED:
Card 3/3

January 2, 1958

5(4)

AUTHOR:

Bardin, M. B., Lyalikov, Yu. S.,
Temyanko, V. S.

SOV/75-14-1-4/32

TITLE:

On the Question of Using Rotating Platinum Micro-Disc
Electrodes in Polarographic Analysis (K voprosu o primeneni
vrashchayushchegosya platinovogo mikrodiskovogo elektroda v
polyarograficheskom analize)

PUBLISHED:

Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 1, pp 24-27
(USSR)

SUMMARY:

Levich (Ref 2) worked out a general quantitative theory of the
disc electrode. In the presence of an indifferent electrolyte
the diffusion current i_d , caused by the reduction of an
uncharged particle or by an ion, obeys to the following equation:

$$i_d = 0.62n F D^{2/3} \omega^{1/2} \nu^{-1/6} c_s$$

where n is the number of electrons participating in the
reaction, F is the Faraday constant, D is the diffusion
coefficient in cm^2/sec , ω is the angular velocity of the
electrode rotation ($= 2\pi m$, m being the number of rotation per
second),

Card 1, 3

On the question of using rotating disk
micro-disc electrodes in polarographic analysis.

SOV 1-14-1-1964

ν the kinematic viscosity of the liquid in cm^2/sec , c_0 the concentration in mole/l of the ion to be determined, i_{lim} the electrode surface current, this equation gives i_{lim} in μA or mA depending on the units used. In a recent paper we reported the use of micro-disc electrodes in investigating the reversibility of their being amperometric polarographic analysis is discussed. The authors work with a visual polarograph measuring with a rotating disk electrode of type -11 and -12. In coil with the rotating electrode is depicted and described. A small platinum plate is used as anode. In agreement with Levich's equation the diffusion currents at the micro-disc electrode were found to be proportional to the concentration and to the square root of the electrode angular velocity. Theoretically calculated curves fitted with experimental data. Using of Levich's equation the authors calculated the diffusion coefficient of the ion $[10^{-5}]$ in $0.1 \text{ M Na}_2\text{SO}_4$ solution.

Page 2, 3

It amounts to $1.2 \cdot 10^{-5} \text{ cm}^2/\text{sec}$ and is in good agreement with data brought by publications (ref 15). Experiments have shown

On the question of using rotating platinum
micro-disc electrodes in polarographic analysis

SOV/75-14-1-4/72

that micro-disc electrodes may also be employed for
polarography in the flow. Furthermore, they offer several
advantages as compared with rod electrodes, being simpler,
much easier to clean, and therefore, having longer life.
Two different types of micro-disc electrodes are depicted.
They are 1) figures, 2) tables, and 1) reference, 1. of which
are Soviet.

Author: Vishnevskiy (Gosudarstvennyy universitet
(Vishnev State University))

Date: September 27, 1957

Card 3/5

5(2)

AUTHORS:

Pshenitsyn, N. K., Yezerskaya, N. A., Bardin, M. B.

SOV/75-14-4-15/30

TITLE:

Polarography of Precious Metals

PERIODICAL:

Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 4, pp 466-471
(USSR)

ABSTRACT:

The present article gives a summary of the papers published until the end of 1958 in the field of polarography and amperometry of the precious metals gold, platinum, palladium, iridium, rhodium, ruthenium and osmium. The papers on amperometric titration are divided into 2 groups: a) with the use of a mercury dropping electrode, b) with the use of a rotating platinum electrode. 14 of the discussed 62 papers were published in Soviet periodicals. There are 62 references, 14 of which are Soviet.

SUBMITTED:

May 16, 1958

Card 1/1

BARDIN, M.B. (Kishinev)

Certain adsorption phenomena in cathodic polarography with
solid electrodes. Zhur. fiz. khim. 38 no.3:571-575 Mr '64.
(MIRA 17:7)

1. Kishinevskiy gosudarstvennyy universitet.

BARDIN, M.B.; BALANDINA, N.S.; TODOROVA, G.I.

Amperometric determination of palladium by means of thiourea using a rotating platinum electrode. Zhur.anal.khim. 19 no.10:1228-1233 '64.
(MIRA 17:12)

1. Kishinev State University.

BARDIN, M.B.; GONCHARENKO, V.P.

Polarographic behavior of osmium on the rotating platinum
microdisk electrode. Part 1. Zhur.fiz.khim. 38 no.11:2626-2632
N '64.

(MIRA 18:2)

1. Kishinevskiy gosudarstvennyy universitet.

BARDIN, M.B.; SHAPIRO, V.I.

Polarographic behavior of rhodium on a rotating platinum
microdisk electrode. Ush.zap.Kish.un. 68:64-70 '69 (cover
'64). (MIRA 18:12)

I. Kishinevskiy gosudarstvennyy universitet.

KONSTANTINOV, B.A. dotsent, kand.tekhn.nauk; AYZENBERG, B.L., dotsent, kand.tekhn.nauk; KLEBANOV, L.D., kand.tekhn.nauk; NIKOGOSOV, S.H., dotsent, kand.tekhn.nauk; BARDIN, M.I., inzh.; KOROLEV, V.A., inzh.; PRINTSEV, A.A., inzh.; SOKOLOVA, K.I., inzh.; SHULYAT'YEVA, G.N., inzh.; ROZENBERG, B.I., prof., doktor tekhn.nauk [deceased]; BYKOV, N.G., inzh.; ZEYLIGER, A.N., inzh.; ZABRODINA, A.A., tekhn.red.

[Collected information data regarding the power factor ($\cos \varphi$)]
Sbornik informatsionnykh materialov po koeffitsientu moshchnosti ($\cos \varphi$). Pod red. B.A.Konstantinova. Moskva, Gos.energ.izd-vo, 1959. 141 p. (MIRA 12:12)

1. Leningrad. Leningradskiy inzhenerno-ekonomicheskii institut.
2. Leningradskiy inzhenerno-ekonomicheskii institut (for Konstantinov, Aysenberg, Klebanov, Nikogosov).
3. Energosbyt Lenenergo (for Bardin, Korolev, Printsev, Sokolova, Shulyat'yeva).
4. Leningradskiy politekhnicheskii institut (for Rozenberg).
5. Leningradskoye ot-deleniye instituta "Teploelektroproyekt" (for Bykov, Zeyliger).
(Electric engineering)

BARDEN, N.J.; DYMOVICH, N.D.

Propagation of ultrashort radio waves in a large city. Elektrosviaz' 18
no. 7:17-25 J1 '64. (MIRA 17:10)

BARDIN, P.

Collective Farms

Contracts and agreements of collective farms.
Kolkh. proizv. 12 No. 2, 1952

9. Monthly List of Russian Accessions, Library of Congress, June 195~~3~~² Uncl.

Сборник, I, ed.

1955
720.101
.32
1955

Sbornik konsultatsiy po voprosam kollektivnogo prava; v vypravkach I otvetakh
(Collection of consultations on problems of kollektiv law) Izd. 2., isprav.
Moskva, Gospravdat, 1955.
403 p. tables.

BARDIN, V.

Valuable example set by builders of Vladimir Province. Sel'.
stroil. 14 no.12:3-5 D '59. (MIRA 13:4)

1. Nachal'nik otдела stroitel'stva Vladimirokogo oblastnogo
upravleniya sel'skogo khozyaystva.
(Vladimir Province--Dairy barns)

BARDIN, V.

Discovery of a mummified seal in the Schirmacher oasis. Inform.
biul.Sov.antark.eksp. no.31:54-55 '61. (MIRA 15:4)
(Schirmacher Ponds, Antarctica—Seals (Animals))
(Mummies)

BOL'SHAKOV, K.A.; YEREMIN, Yu.G.; BARDIN, V.A.

Preparation and properties of a complex of gallium chloride with
methylene blue. Izv.AN SSSR.Otd.khim.nauk no.6:945-950 Je '61.
(MIRA 14:6)

1. Institut tonkoy khimicheskoy tekhnologii im. M.V.Lomonosova.
(Gallium compounds) (Methylene blue)

BARDIN, V. A.

Eng.

"A New Method of Fitting and Fixing Pulleys on the Motor Shaft," Stanki i
Instrument, 10, No.2, 1939

BOL'SHAKOV, K.A.; BARDIN, V.A.; GLADNEVA, A.F.

System $H_2O - HReO_4$ ~~zhur.~~ neorg.khim. 10 no.11:2535-2537 N '65.
(MIRA 18:12)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni
M.V.Lomonosova. Submitted May 30, 1964.

BARDIN, V.I., aspirant; SHIL'NIKOV, V.I., mladshiy nauchnyy sotrudnik

"Productivity" of the coast of eastern Antarctica. Inform. biul.
Sov. antark. eksp. no.23:28-32 '60. (MIRA 14:5)

1. Moskovskiy gosudarstvennyy universitet i Arkticheskiy i
antarkticheskiy nauchno-issledovatel'skiy institut.
(Antarctic regions--Glaciers)

BARDIN, V.I., aspirant

New opinion on the nature of the Ninnis Glacier Tongue. Inform. biul.
Sov. eksp. no.20:38-42 '60. (MIRA 13:9)

1. Tret'ya morskaya ekspeditsiya.
(Ninnis Glacier Tongue)

BARDIN, V.I. —

The ribbed iceberg. Inform. biul. Sov. antark. eksp. no.23:47-
50 '60. (MIRA 14:5)

(Antarctic regions---Icebergs)

BARDIN, V.I.

Stone "kettles." Inform. biul. Sov. antark. eksp. no.26:47-
48 '61. (MIRA 14:7)
(Webb, Cape, Antarctica--Erosion)

BARDIN, V.I., aspirant; DUNDO, O.P., mladshiy nauchnyy sotrudnik;
KONOVALOV, G.V., mladshiy nauchnyy sotrudnik

Brief geomorphological characteristics of mountains in Queen
Maud Land. Inform.biul.Sov.antark.eksp. no.30:9-12 '61.

(MIRA 14:12)

1. Moskovskiy gosudarstvennyy universitet (for Bardin).
2. Nauchno-issledovatel'skiy institut geologii Arktiki (for Dundo).
3. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy institut (for Konovalov).

(Queen Maud Land--Physical geography)

SHIL'NIKOV, V.I., mladshiy nauchnyy sotrudnik; BARDIN, V.I., aspirant

Distribution of icebergs off the coasts of eastern Antarctica.
Inform. biul. Sov. antark. eksp. no.36:19-21 '62.

(MIRA 16:4)

1. Arkticheskiy i antarkticheskiy nauchno-issledovatel'skiy
institut i Moskovskiy gosudarstvennyy universitet.
(Antarctic regions--Icebergs)

MARKOV, Konstantin Konstantinovich; BARDIN, Vladimir Igorovich; ORLOV, Aleksandr Ivanovich; BORSHCHEVSKIY, O.A., red.; PETROVA, K.A., red.; LAZAREVA, L.V., tekhn. red.

[Physicogeographical description of the coast line of eastern Antarctic] Fiziko-geograficheskaya kharakteristika beregovoi polosy Vostochnoi Antarktity. Pod red. O.A. Borshchevskogo. Moskva, Izd-vo Mosk. univ., 1962. 147 p. (MIRA 16:1)
(Antarctic regions--Physical geography)

BARDIN, V.I.

Geographical exploration in the Queen Maud Land in 1960-1961
Vest. Mosk. un. Ser. 5: Geog. 17 no.5:57-59 S-0 '62.
(MIRA 16:4)

(Queen Maud Land--Geographical research)

BARDIN, V.I. (Moskva)

Mystery of an Antarctic lake. Priroda 52 no.4:112-113 '63.
(MIRA 16:4)
(Vanda, Lake, Antarctica--Temperature)

BARDIN, V.I., aspirant

Zoning of periglacial phenomena in the mountains of Queen Maud Land.
Inform.biul. Sov.antark.eksp no.43:11-14 '63. (MIRA 17:1)

1. Moskovskiy gosudastvennyy universitet.

BARDIN, V.I.

Relief forming activity of thawing waters in the mountains of
the Queen Maud Land. Vest. Mosk. un. Ser. 5: Geog. 19 no.3:
90-91 My-Je '64. (MIRA 17:6)

BARDIN, V.I.

A little skua. Inform. biul. Sov. antark. eksp. no.45:57-58 '64.
(MIRA 18:1)

BARDIN, V.I., Khimich. i biokhimiya (1955), No. 1, p. 100. (1955)
Sotrudnik

Chemism of the waters of the Kholm...
Sotrudnik; No. 1:101-95 (1955) (Soviet Union)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

BARDIN, V.S. (Bezhetak)

Teaching correct prescription writing. Fel'd. i akush. no.12:42-44
D '54. (MLRA 8:2)

(PRESCRIPTIONS
writing, correct in med. educ.)

BARDIN, V.S. (Bezhetsk)

Anniversary of a medical school. Vol'd. 1 skush. 23 no. 6:64 Ja '58
(MIRA 11:6)

(BEZHETSK--MEDICINE--STUDY AND TEACHING)

FEDOT'YEV, N.P.; VYACHESLAVOV, P.M.; BARDIN, V.V.

Effect of various factors on the deposition process and the
properties of electrolytic chromium. Trudy LTI no.53:43-50
'59. (MIRA 14:3)
(Chromium plating) (Electrolysis)

FEDOT'YEV, N.P.; VYACHESLAVOV, P.M.; BARDIN, V.V.

Hardness of electrolytic chromium. Zhur.prikl.khim. 29 no.3:
476-478 Mr '56.

(MLRA 9:8)

(Chromium) (Hardness)

BARDIN, V.V., Cand Chem Sci --(disc) " Study of molybdic and molybdenum-oxide electrodes, and their use in potentiometric analysis." Len, 1958.
10 pp (Min of Higher Education USSR. Len Order of Labor Red Banner Technological Inst in Leningrad), 150 copies (Kb, 41-58, 120)

- 9 -

BARDIN, V.V.; ALESKOVSKIY, V.B.; MILLER, A.D.

Molybdenum and molybdenum oxide electrodes. Trudy LTI no.48:
83-89 '58 (MIRA 15:4)
(Electrodes, Molybdenum)

BARDIN, V.V., inzh.; MOROZOV, A.V.

Young inventors and efficiency promoters at the Orekhovo Cotton
Combine. Izobr.v SSSR 3 no.1:30-32 Ja '58. (MIRA 11:1)
(Orekhovo-Zuevo--Textile workers)

KARASINA, E.S.; KROPP, L.I.; MINTS, M.S.; KNYAZ'KOV, B.N.; LITVINOV, D.D.;
GRINBLAT, Ye.I.; KAZAKOV, V.Ya.; VOLKOV, B.V.; BARDIN, V.V.

Exchange of experience. Zav.lab. 28 no.5:633-635 '62.

(MIRA 15:6)

1. Vsesoyuznyy teploekhnicheskii institut imeni F.E.Dzerzhinskogo
(for Karasina, Kropp, Mints). 2. Institut radiofiziki i
elektroniki AN USSR (for Knyaz'kov, Litvinov). 3. Ural'skiy
politekhicheskii institut imeni S.M.Kirova (for Grinblat,
Kazakov). 4. Opytnokonstruktorskoye byuro sinteticheskikh pro-
duktov (for Volkov). 5. Leningradskiy tekhnologicheskii
institut imeni Lensoveta (for Bardin).

(Chemical apparatus)

BARDIN, V.V.

Potentiometric analysis of small concentrations of chloride ions.
Zav.lab. 28 no.8:910-913 '62. (MIRA 15:11)

1. Leningradskiy tekhnologicheskii institut imeni Lensoveta.
(Chlorides) (Potentiometric analysis)

BARDIN, Ye.A., kand.med.nauk

Effect of platyphylline on the gonads of animals. Zdrav.Bel. 8
no.11:38-39 N '62. (MIRA 16:5)

1. Iz kafedry fakul'tetskoy terapii (zav. - akademik AN BSSR
B.I. Trusevich [deceased] Minskogo meditsinskogo instituta.
(PLATYPHYLLINE—PHYSIOLOGICAL EFFECT)
(STERILITY IN ANIMALS)

BYSTRITSKIY, A.L.; ALESKOVSKIY, V.B.; BARDIN, V.V.

New potentiometric method for determining the microgram quantities
of bromide ions in water. Izv.vys.ucheb.zav.;khim.i khim.tekh. 6
no.1:31-34 '63. (MIRA 16:6)

1. Leningradskiy tekhnologicheskiy institut imeni Lensoveta,
kafedra analiticheskoy khimii.
(Bromides) (Potentiometric analysis)

APIN, A.Ya.; BARDIN, Ye.P.; VELINA, N.F.

Effect of the density and the composition of explosives on
the detonation impulse. Varyv. delo no.52/9:90-102 '63.
(MIRA 17:12)

1. Institut khimicheskoy fiziki AN SSSR.

BARDIN, Ye. V.

Bardin, Ye. V.

"The functional state of the kidneys in patients with circulatory insufficiency." Minsk State Medical Inst. Minsk, 1956. (Dissertation For the Degree of Candidate in Medical Sciences).

Knizhnaya letopis'
No 34, 1956. Moscow.

BARDIN, Ye. V. Cand Med Sci -- (diss) "~~The~~ Functional State of *the*
Kidneys in Patients With Blood-Circulation Insufficiency." Minsk,
1957. 12 pp 20 cm. ~~MINNEXY~~ (Minsk State Medical Inst), 100 copies
(KL, 25-57, 117)

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USSR / Human and Animal Physiology. Excretion. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41463.

Author : Bardin, Ye. V.

Inst : ~~Minsk Medical Institute.~~

Title : Renal Function in Circulatory Failure.

Orig Pub: V sb.: nauchn. rabot Minskii med. in-t, 1957, 18,
140-150.

Abstract: The application of a battery of functional kidney tests (F. K. T.) in 100 cardiac patients with grade I-III of failure, demonstrated significant disturbances of the renal function. The number of tests with abnormal findings increased with the severity of the failure. The number of

Card 1/2

BARDIN, Ya. V.

Fibrinogen level in disorders of the coronary blood circulation
and in hypertension. Zdrav. Bel. 5 no.5:18-19 My '59. (MIRA 12:8)

1. Iz kafedry fakul'tetskoy terapii (zaveduyushchiy - akademik AN
BSSR prof. B.I. Trusevich) Minskogo meditsinskogo instituta.
(FIBROGEN) (CORONARY VESSELS--DISEASES)
(HYPERTENSION)

BARDIN, Ye.V., kand.med.nauk

Reserpine therapy in hypertension. Zdrav.Belor. 5 no.8:13-16
Ag '59. (MIRA 12:10)

1. Kafedra fakul'tetskoy terapii (zaveduyushchiy - akademik
AN BSSR B.I.Trusevich) Minskogo medinstituta.
(RESERPINE) (HYPERTENSION)

BARDIN, Ye.V., kand.med.nauk

Case of athrombocytosis following the use of butadione. Zdrav.
Belor. 6 no.2:65-66 P '60. (MIRA 13:6)

1. Iz fakul'tetskoy terapevticheskoy kliniki (zaveduyushchiy -
professor B.I. Trusevich) Minskogo meditsinskogo instituta.
(BLOOD PLATELETS) (PYRAZOLIDINEDIONE)

BARDIN, Ye.V., kand. med. nauk

Determination of the rheumatoid factor with the dermatol test.
Zdrav. Bel. 9 no.3:22-25 Mr'63 (MIRA 16:12)

1. Fakul'tetskaya terapevticheskaya klinika Minskogo meditsin-
skogo instituta.

BARDIN, Yu., inzhener-mayor

The hydrosystem works well. Starsh.-serzh. no.10:30-31 0 '61.

(Airplanes--Hydraulic equipment) (MIRA 15:2)